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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/986,764	11/09/2001	Gregory S. Rawlins	1744.1330000	5623		
26111 75	26111 7590 06/01/2005			EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W.			VO, DON	VO, DON NGUYEN		
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER		
	•		2631			

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Ú X		
	Application No.	Applicant(s)	
	09/986,764	RAWLINS ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAN INCOME.	DON N. VO	2631	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	imely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 09 December 2a) This action is FINAL. 2b) This action is FINAL. 2b) This Since this application is in condition for alloware closed in accordance with the practice under Expression 1. 	action is non-final. nce except for formal matters, pr		
Disposition of Claims			
4) ☐ Claim(s) 1,2,4-17,26-29,31-40,49 and 51-82 is, 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) 53-60,79 and 80 is/are allowed. 6) ☐ Claim(s) 1,2,4-8,13-17,26-29,31-34,39,40,49,5 7) ☐ Claim(s) 9-12,35-38 and 68-71 is/are objected 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. 1,52,61-67,72-78,81 and 82 is/a	ure rejected.	
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the drawing(s) be held in abeyance. So on is required if the drawing(s) is old	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receiv t (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:		

DETAILED ACTION

Acknowledgment

1. This Office Action is responsive to the Amendment filed on 12/9/2004.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 26, 28, 39, 40, 49, 51, 61, 75-78, 81 and 82 are rejected under 35 U.S.C. 102(b) as being anticipated by Urabe et al (5,760,629; art of record).

Regarding claims 1, 26, 28, 39, 40, 49, 51, 61, 75-78, 81 and 82, Urabe, as shown in figures 1-8, teaches a DC offset compensation device used in a receiver for compensating DC offset comprising a receiving channel (a), a summer (1), an estimator having integrators (4) and their time constants are varied by the controlled signal (c). Notice that, it is the inherent property of the integrator to have its frequency response varied when its time constant is varied. See also column 1, lines 6-22; column 2, line 56 to column 3, line 25; and column 9, line 11 to column 11, line 61.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 2, 4, 16, 17, 27, 52, 62, 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe et al (5,760,629).

Regarding claims 2, 16, 17, 27, 52 and 62, Urabe teaches all subject matter claimed except for particularly using the DC offset correction circuit in the WLAN communication system and receiving RF signal or IF signal. However, the DC offset correction circuit of Urabe can be applied in many receivers which can process RF or IF signals. See column 1, lines 6-10. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made

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:-

to apply the DC offset correction circuit of Urabe in WLAN since it is just an intended use of the circuit.

Regarding claims 4 and 63, Urabe teaches all subject matter claimed except for particularly setting the frequency response of the integrator to certain frequency responses as claimed. However, the frequency response of the integrator of Urabe can be varied based on the controlled value of the controlled signal (c). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to set the frequency response of the integrator to certain frequency responses as claimed and such setting would not involve any inventive features since it is just a matter of varying the value of the designed components.

7. Claims 5-8, 13-15, 29, 31-34, 64-67, and 72-74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe et al (5,760,629) in view of Nagata (6,204,789; art of record) or Dasgupta (6,084,465).

Regarding claims 5-8, 13-15, 29, 31-34, 64-67 and 72-74, Urabe teaches all subject matter claimed except for particularly implementing the integrator using amplifier, capacitor and variable resistor as claimed. However, Nagata or. Dasgupta teaches implementing the integrator having the components as claimed. See figure 17A and column 15, lines 24-27 of Nagata and figures 1A, 3A, 4A and 5 of Dasgupta. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the

integrator of Urabe using the implementation as taught by Nagata or Dasgupta since it is just an alternative way of implementing the integrator.

Allowable Subject Matter

- 8. Claims 53-60, 79 and 80 are allowed.
- 9. Claims 9-12, 35-38, and 68-71 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

10. Applicant's arguments with respect to claims 1, 2, 4-8, 13-17, 26-29, 31-34, 49, 51, 52, 61-67, 72-78, 81 and 82 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on TUE - FRI (9:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (571) 272-3021. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DON N. VO

Primary Examiner

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